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NOTICE OF ALLOWANCE AND FEE(S) DUE

26530

7590

05/16/2008

LADAS & PARRY LLP 224 SOUTH MICHIGAN AVENUE SUITE 1600 CHICAGO, IL 60604

EXAMINER				
KINKEAD, ARNOLD M				
ART UNIT	PAPER NUMBER			

2817

DATE MAILED: 05/16/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/572,901	03/21/2006	Seon Ho Han	CU-4701 WWP	4733

TITLE OF INVENTION: VOLTAGE CONTROLLED DIGITAL ANALOG OSCILLATOR AND FREQUENCY SYNTHESIZER USING THE SAME

Α	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
ne	onprovisional	YES	\$720	\$300	\$0	\$1020	08/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance onerwise in Block 1, by (rders and notification of r a) specifying a new corres	naintenance fees v pondence address	vill be ; and/o	mailed to the current r (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				s) Transmittal. Thers. Each additiona	is certii Il paper	ficate cannot be used f	or domestic mailings of the for any other accompanying ant or formal drawing, must
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SUITE 1600	CHIGAN AVENUI	Е	I he Stat addı tran	reby certify that thes Postal Service v	is Fee(s) Transmittal is being	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
CHICAGO, IL 6	00004						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/572,901	03/21/2006	•	Seon Ho Han			CU-4701 WWP	4733
TITLE OF INVENTION	: VOLTAGE CONTRO	LLED DIGITAL ANALO	OG OSCILLATOR AND F	REQUENCY SYN	NTHES	IZER USING THE SA	AME
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0		\$1020	08/18/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
KINKEAD,	ARNOLD M	2817	331-016000				
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on the p			ď	_
	ondence address (or Cha B/122) attached.	inge of Correspondence	(1) the names of up to or agents OR, alternation	3 registered pater ely,	it attori		
			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	<u> </u> THE PATENT (print or typ	ne)			
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the p	atent. If an assign	ee is id	dentified below, the d	ocument has been filed for
(A) NAME OF ASSI	•	pletion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	· ·	COUNT	rry)	
(1) 11111111111111111111111111111111111			(B) ILLUIDE (CIT			,	
			_				_
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 C	orporat	ion or other private gro	oup entity 🖵 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Ple a	se first reapply a	ny prev	viously paid issue fee	shown above)
Issue Fee			A check is enclosed.				
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
			overpayment, to Depo	sit Account Numb	er	(enclose a	n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY state	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lon	ger claiming SMA	II EN'	TITY status See 37 Cl	FR 1 27(g)(2)
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	d from anyone other than t				ne assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.				
Authorized Signature				Date			
Typed or printed name				Registration N	No		
This collection of inform	nation is required by 37 C	CFR 1.311. The information	on is required to obtain or i	etain a benefit by t	he pub	lic which is to file (and	by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggests. Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR	1.14. This collection is esty depending upon the indiverse Chief Information Office COMPLETED FORMS TO	imated to take 12 idual case. Any co er, U.S. Patent and D THIS ADDRESS	minute: ommen Trader S. SEN	s to complete, including ts on the amount of time mark Office, U.S. Depa D TO: Commissioner	g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/572,901	03/21/2006	Seon Ho Han	CU-4701 WWP	4733
26530 75	90 05/16/2008		EXAM	INER
LADAS & PARRY LLP			KINKEAD,	ARNOLD M
224 SOUTH MICHIGAN AVENUE			ART UNIT	PAPER NUMBER
SUITE 1600 CHICAGO, IL 606	504		2817 DATE MAILED: 05/16/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 259 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 259 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/572,901 Examiner	HAN ET AL. Art Unit	
-	Lxammer	Artome	
	Arnold Kinkead	2817	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub	is application. If not included cation will be mailed in due course.	
1. \boxtimes This communication is responsive to <u>04-17-08</u> .			
2. ☑ The allowed claim(s) is/are <u>1-20</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.		
3. Copies of the certified copies of the priority do	cuments have been received ir	this national stage application from	n the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or de	eclaration is deficient.	
5. X CORRECTED DRAWINGS (as "replacement sheets") mus			
(a) I including changes required by the Notice of Draftspers		PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date 05-09-08.	s Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			f
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Infor	mal Patent Application	
 Notice of References Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sum	• •	
3. ☑ Information Disclosure Statements (PTO/SB/08),		il Date	
Paper No./Mail Date <u>05-30-06 corrected</u> 4. Examiner's Comment Regarding Requirement for Deposit		atement of Reasons for Allowance	
of Biological Material	9. ☐ Other		
	/Arnold Kinkead/ Primary Examiner, Ar	t Unit 2817	

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 1, line 2, "an oscillator a frequency" has been changed to read—an oscillator wherein a frequency--;

In claim 2, line 4, "and a" is now --and--.

The following changes to the drawings have been approved by the examinerPlease replace Figures 1-5 with figures labeled with "Prior Art" ...In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Hoteling.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/572,901 Page 3

Art Unit: 2817

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Arnold Kinkead/ Primary Examiner, Art Unit 2817